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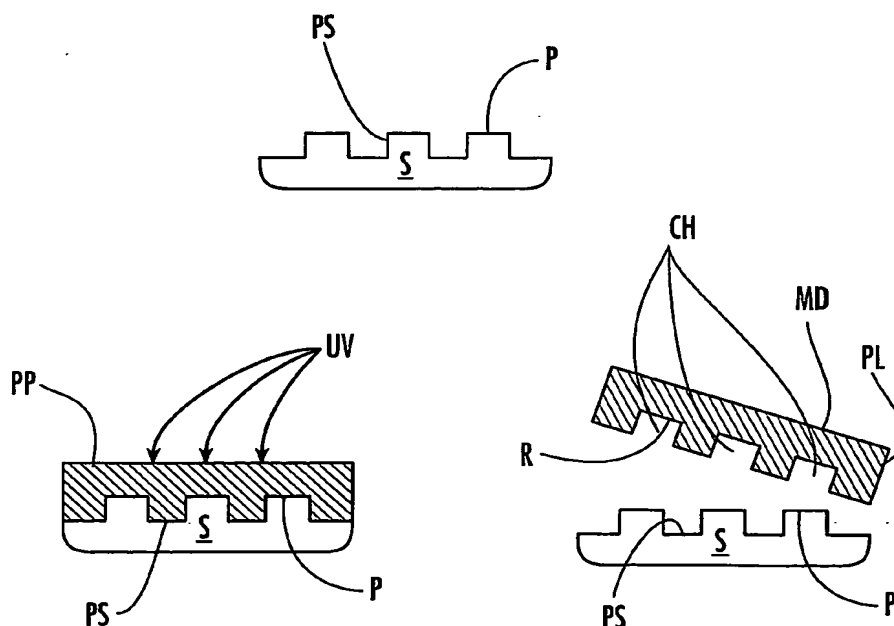
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(54) Title: **PHOTOCURABLE PERFLUOROPOLYETHERS FOR USE AS NOVEL MATERIALS IN MICROFLUIDIC DEVICES**



(57) Abstract: A functionalized photocurable perfluoropolyether is used as a material for fabricating a solvent-resistant microfluidic device. Such solvent resistant microfluidic devices can be used to control the flow of small amounts of a fluid, such as an organic solvent, and to perform microscale chemical reactions that are not amenable to other polymer-based microfluidic devices.



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